

IN THE CLAIMS:

1. (Previously Presented): A method for extending the capabilities of a web server, comprising the steps of:

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sending a request from a client to the web server, the request identifying requested content and including addresses for a plurality of code modules needed to service the request;

if a given code module is unavailable at the web server, having the web server use a corresponding address to request the given code module from a publishing server;

installing the given code module at the web server;

receiving the requested content at the web server; and

applying the plurality of code modules sequentially to the requested content.

2. (Previously Presented): The method as described in Claim 1 further including the step of serving the given code module from the publishing server to the web server.

3. (Previously Presented): The method as described in Claim 1 wherein the corresponding address is a URL.

4. (Previously Presented): The method as described in Claim 1 wherein the given code module is unavailable to the web server because the web server does not support the given code module.

5. (Previously Presented): The method as described in Claim 1 wherein the given code module is unavailable to the web server because the server cannot access the given code module.

6. (Previously Presented): The method as described in Claim 1 wherein the request includes a unique identifier for each code module within the plurality of code modules.

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7. (Previously Presented): The method as described in Claim 1 wherein each code module within the plurality of code modules conforms to a specific transformation API of the web server.

8. (Previously Presented): The method as described in Claim 1 further including the steps of:

- having the publishing server sign the given code module with a key;
- serving the signed code module from the publishing server to the web server; and
- verifying authenticity of the signed code module prior to the installing step.

9. (Previously Presented): A method for enabling a web client to add functionality to a web server on an as-needed basis, comprising the steps of:

- receiving a request from a client, the request identifying a code module required to process the request;

- responsive to a determination that the code module is not available at the web server, uploading a code module from the client to the web server; and

- at the web server, using the uploaded code module as needed to service a given request from the web client.

10. (Original): The method as described in Claim 9 wherein the web client is a pervasive computing client.

11. (Original): The method as described in Claim 10 wherein the code module translates data into a given proprietary format and serves the translated data back to the pervasive computing client.

12. (Original): The method as described in Claim 9 wherein the code module conforms to a given application programming interface (API).

13. (Previously Presented): A method operative at a web server in a computer network, comprising the steps of:

C) receiving a request from a client, the request identifying requested content, a plurality of code modules, and an address for each code module within the plurality of code modules;

if a given code module within the plurality of code modules is unavailable at the web server, using a corresponding address to request the given code module from a given location in the computer network;

installing the given code module at the web server;

receiving the requested content at the web server;

using the plurality of code modules sequentially to process the requested content to form transformed content; and

serving the transformed content back to the client.

14. (Previously Presented): The method as described in Claim 13 further including the step of authenticating the given code module prior to the installing step.

15. (Original): The method as described in Claim 14 wherein the given location is a publishing server.

16. (Original): The method as described in Claim 15 wherein the step of authenticating includes applying a given key to information retrieved from the publishing server.

17. (Previously Presented): A computer program product in a computer usable medium operative in a web server, comprising:

means for receiving a request from a client, the request identifying requested content, a plurality of code modules, and an address for each code module within the plurality of code modules;

means responsive to a determination that a given code module is not available at the web server for using a corresponding address to request the given code module from a given location in the computer network;

means responsive to receipt of the given code module from the given location for installing the given code module at the web server for use in responding to the request;

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means for receiving the requested content at the web server;  
means for using the plurality of code modules sequentially to process the  
requested content to form transformed content; and  
means for serving the transformed content back to the client.

18. (Previously Presented): The computer program product as described in Claim 17 further including means for authenticating the given code module.

19. (Canceled)

20. (Previously Presented): A computer program product in a computer usable medium operative in a web server, comprising:

means for receiving a request from a client, the request identifying a code module required to process the request;

means responsive to a determination that the code module is not available at the web server for requesting the client to upload the code module; and

means responsive to receipt of the code module from the client for installing the code module at the web server for use in responding to the request.

21. (Original): The computer program product as described in Claim 20 further including means for authenticating the code module.

22. (Original): The computer program product as described in Claim 20 further including means for executing the code module to respond to the request.

23. (Previously Presented): A web server operative in a computer network, comprising:

means for receiving a request from a client, the request identifying requested content, a plurality of code modules, and an address for each code module within the plurality of code modules;

means responsive to a determination that a given code module is not available at the web server for using a corresponding address to request the given code module from a given location in the computer network;

C) means responsive to receipt of the given code module from the given location for installing the given code module at the web server for use in responding to the request; receiving the requested content; and

means for applying the plurality of code modules sequentially on the requested content to respond to the request.

24. (Previously Presented): The web server as described in Claim 23 further including means for authenticating the given code module.

25. (Previously Presented): The web server as described in Claim 23 wherein each code module within the plurality of code modules is written to conform to a server API.

26. (Previously Presented): The web server as described in Claim 25 wherein each code module within the plurality of code modules is written in Java.

27. (Original): The web server as described in Claim 23 further including means for deleting a code module from the server upon a given occurrence.

28. (Previously Presented): In a client-server computer network, the improvement comprising:

a web client having means for identifying a plurality of code modules required to process a client request;

a publishing server supporting a given code module at a given URL;

a web server, comprising:

means responsive to receipt of a request from the web client for identifying requested content, a plurality of code modules, and a URL for each code module within the plurality of code modules;

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means responsive to a determination that a given code module is not available at the web server for using a corresponding URL to request the given code module from the publishing server;

means responsive to receipt of the given code module from the publishing server for installing the given code module;

means for receiving the requested content;

means operative during a web transaction for applying the plurality of code modules sequentially to the requested content to respond to the request to form transformed content; and

means for serving the transformed content back to the web client.

29. (Original): In the client-server computer network as described in Claim 28 wherein the web client is a pervasive computing client.

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